



# The Group on Earth Observations (GEO)

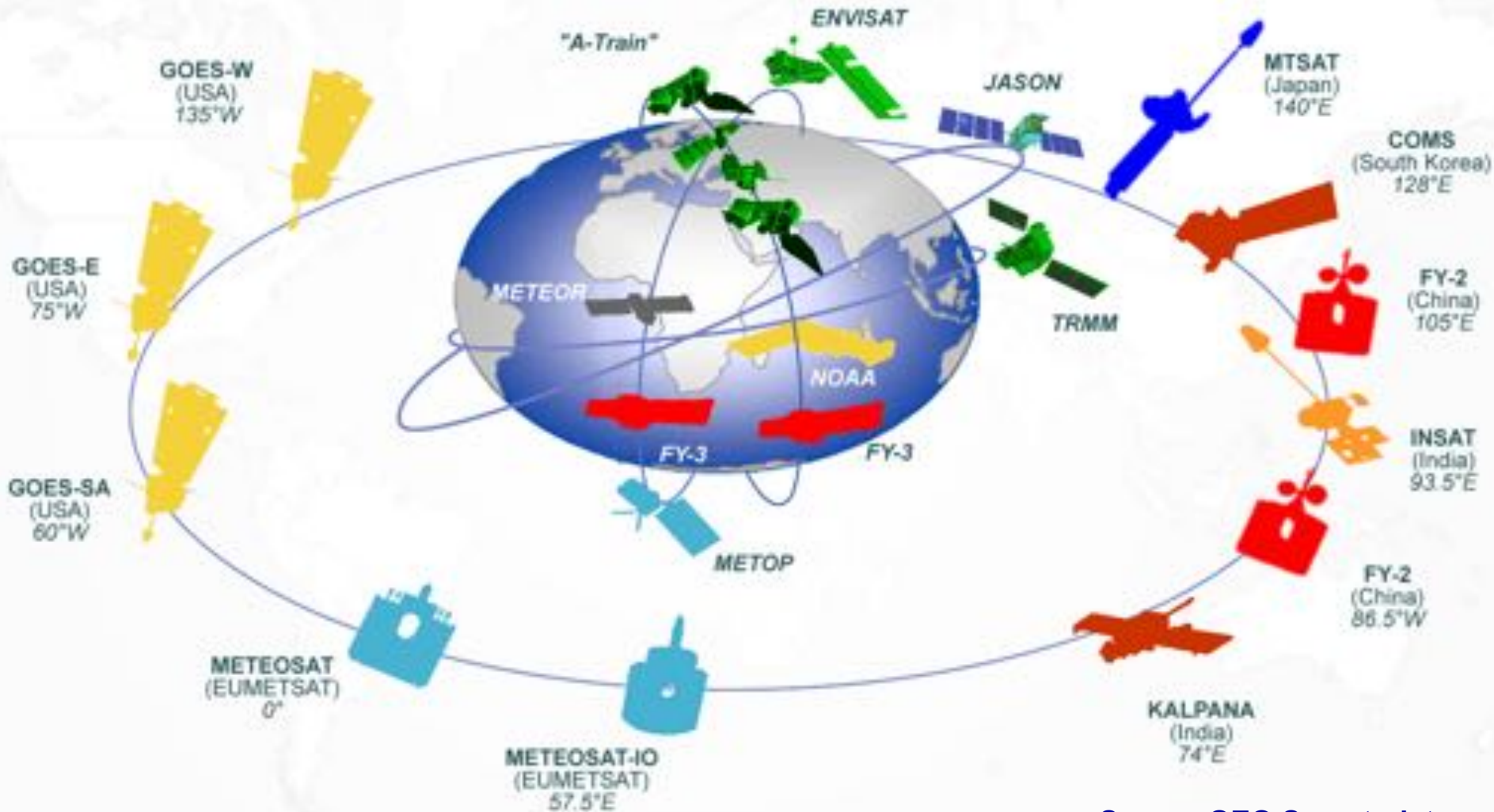
**4th Meeting of the  
Global High Frequency Radar Network**

**22-23 September 2015  
Heraklion, Crete**





# Space-based Assets



# In-situ systems





# **GEO, the Group on Earth Observations**

## **An Intergovernmental group with 99 Members and 87 Participating Organizations**





## **GEO Vision**

**To realize a future wherein decisions and actions, for the benefit of humankind, are informed by coordinated, comprehensive and sustained Earth observations and information.**



# **GEO Objectives**

- **Improve and Coordinate Observation Systems**
- **Advance Broad Open Data Policies/ Practices**
- **Foster Increased Use of EO Data and Information**
- **Build Capacity**



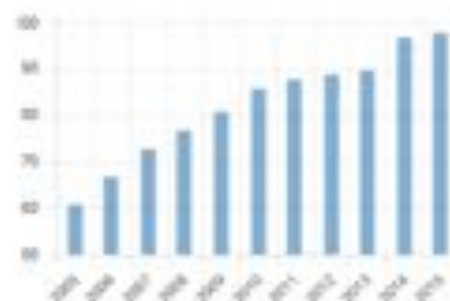
GEO Member Map for the year 2015



Number of Members (2015)

Africa:	25
Americas:	15
Asia/Oceania:	17
C.I.S.:	7
Europe:	34
<b>Total:</b>	<b>98</b>

Number of Members by year





# 87 Participating Organizations







# Global Earth Observation System of Systems (GEOSS)



# GEOSS Provides Coordinated Access to Information from Various Sources



# Enabling a System of Systems



GEOSS Portal



# Current Assets



More than **35 brokered data providers**  
– capacities, systems, Communities



About **14 million (2 million DataCORE)**  
**resources** (mix of data collections, datasets);  
potentially discoverable and accessible



More than **75 million (50 million DataCORE)**  
**single fields** (e.g. satellite scene, raingauge record);  
potentially discoverable and accessible



**Resources**





**GROUP ON EARTH OBSERVATIONS**

**GEOS Portal**  
Discover, Access, Contribute  
Earth-Observation Information & Services



---

**SEARCH**

Related Topics

- Climate
- Climatology/Geography
- Data Access/ Conditions
- Earth Observation/ Land Use

Start Date:  End Date:



**WHAT IS GEO PORTAL**

The GEO Portal is your main entry point to Earth Observation data from all over the world. Search our data for Contributions to our databases and Data Access Tools. We also link world-wide community of providers in the GEO/ESA/ESA/ESA/ESA.

**Register Your Account**  
Make your 'Geospatial' Data accessible here.

**Tell US what you think**  
Your feedback helps us improve the GEO Portal.

---

**POPULAR TAGS**

**Precipitation** Land Surface  
Temperature Land Cover  
Observation Sea Surface  
Temperature  
Observation Surface  
Atmospheric Condition  
Observation Soil Moisture

**COMMUNITY PORTALS**

 <b>OSCARING</b> Geospatial Superstar	 <b>WIKIMEDIA</b> FOCUS
 <b>HEALTH</b> WMO	 <b>ECOSPHERE</b> EduWorld
 <b>ENERGY</b> SOLA ENERGED	 <b>AGRICULTURE</b> RELAN
 <b>CLIMATE</b> LAW	 <b>BIODIVERSITY</b> SEE NOW
 <b>WATER</b> CODE	

**EO NEWS**



**End of the beginning for Swarm trio**  
Reaching a significant milestone for ESA's magnetic field mission, the Swarm satellites have completed the critical first phase of their new mission.





**GROUP ON EARTH OBSERVATIONS**

**GEOSS Portal**  
Discover, Access, Contribute  
Earth Observation Information & Services




HOME
SEARCH GEOSS
ABOUT GEOSS PORTAL
HELP
CONTACT

Focus on: Precipitation (DAB) +

**SEARCH**

hazard

Related Topics

Theme

Country/Geography

Data Access Conditions

Earth Observation Catalog

Start Date  End Date



Total Results: 100

**Legend**

 **A global landslide catalog for hazard applications:**

A systematic inventory of landslide events over the globe is valuable for:

[Click to read more...](#)

 **Cyclone Hazard Frequency Distribution**

Global Cyclone Hazard Frequency and Distribution is a 2.5 minute grid based on more than 1,600 storm tracks for the period 1 January 1980 thro

[Click to read more...](#)

**Showing list of Metadata's WMSs** x

ndh:ndh-cyclone-hazard-frequency-distribution  
DAB Complex  Load on Map

---

ndh:ndh-cyclone-hazard-frequency-distribution  
DAB Simple  [Download](#)



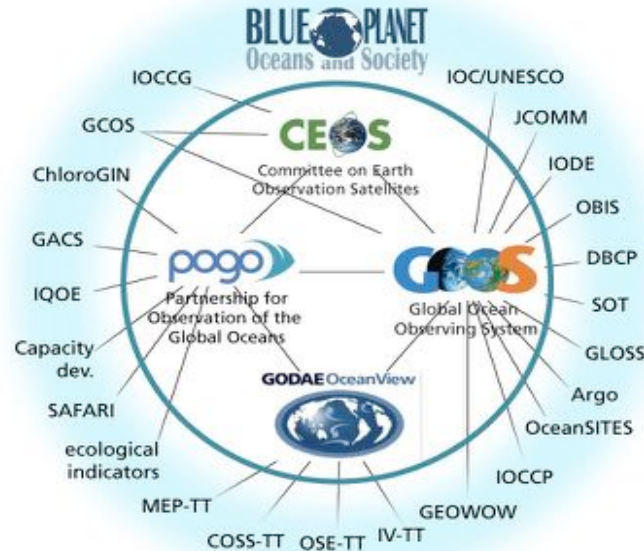
# Information for Societal Benefits



# Bridging Ocean Communities

*(Australia, Canada, EC, UK, USA, CEOS, GCOS, GOOS, IOC, POGO, UNESCO, WMO)*

- Mobile App (AIP-7)
- Crowd sourcing on Species
- Regional Research Projects
- Scholars Trained
- New Website
- 2015 Blue Planet Symposium
- Trans-Atlantic EC-US Canada Initiative

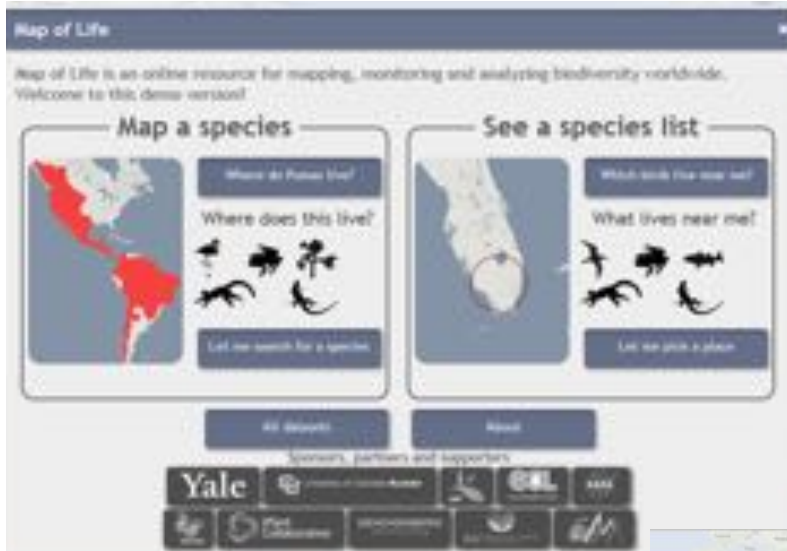






# Biodiversity Observation Network

*(EC, France, Germany, Japan, Netherlands, Spain, South Africa, Sweden, UK, USA, Diversitas, GBIF, IUCN)*



- Essential Biodiv Variables
- 5 projects underway
- Global Network of Ecosystem Observatories
- Marine Biodiversity Observation Network
- Tropical Forest Monitoring
- BON-in-a-Box Handbook
- UN Convention on Biological Diversity (CBD)





# **GEO**

# **Through 2025**



# Key achievements in advancing understanding

- **Three Strategic Objectives for GEO through 2025:**
  - Advocate
  - Engage
  - Deliver
- **Encompass major GEO achievements and success**
  - Data Sharing Principles
  - Data Management Principles
  - Global Earth Observation System of Systems (GEOSS)





## **Contributions to sustainability**

- **Sustainable Development Goals (SDGs) include clear benchmarks against which the world may measure progress over the coming decade.**
  - **integrating earth observations in monitoring the water-health sector in Post-2015 development agenda (WHO/ UNEP/UNHABITAT)**
- **Earth observations will need to play a critical role in support of SDG monitoring frameworks.**



**Douglas Cripe**  
***[dcripe@geosec.org](mailto:dcripe@geosec.org)***

***[earthobservations.org](http://earthobservations.org)***

